

# **MONTHLY PROGRESS REPORT**

**FEBRUARY 2010**

**For The**

## **HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT**



**City and County of Honolulu**

Approved by:

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Simon Zweighaft  
Chief Project Officer

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Date

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## 1. Executive Summary

February 2010 major activities focused on efforts to resolve the Airport Runway Protective Zone intrusion issue and finalize the Environmental Impact Statement. While work progressed with evaluations and discussions detailing mitigation of the impacts of this issue, final resolution still had not been achieved by the end of the month and impacts to other project activities continued.

Other actions occurring this month included:

- A revised Project Management Plan (Revision 3) was prepared and issued. This plan reflects the project management structure of the project as of the start of Preliminary Engineering. The PMO has been requested to review this version of the PMP and advise of the changes that will be necessary to produce a PMP as part of the documents necessary for obtaining final design approval.
- Preparation and planning work for a value engineering study focused on station designs. The stations elements of the project are planned to be design-bid-build procurements while the initial two guideway sections, the core systems and the maintenance facility involve design-build procurements where value engineering is intrinsically a part of the project.
- Given the delay involved in finalizing the EIS and obtaining a ROD, the RTD requested FTA's concurrence in issuing a second Notice-to-Proceed (NTP #1A) to Kiewit in order to advance the soils investigation and the definitive and interim designs. A request to FTA to approve this action was submitted in February, but approval was not received by the end of the month.

Actions to procure contractors, suppliers and designers for future work on the project also continued during the month. Among the procurements underway were:

- The Core Systems Contract (CSC) which is being procured on a DBOM basis. This contract will include the provision of vehicles, train control, traction power, communications systems and fare vending. The selected contractor will operate the system through each of its successive openings and for a period of at least 5 years after the full system has been opened.
- The Maintenance and Storage Facility design-build contract (MSF)— This contractor will design and construct the MSF working in close coordination with other contractors, particularly the CSC.
- The Kamehameha Highway Guideway design-build contract (KHG)— This contract for guideway was accelerated into a DB procurement after the very successful bids for the WOFH guideway contract.

- Farrington Stations design package—there are three stations in this contract for final design services
- General Engineering Consultant (GEC2) Contract—This contract for a GEC covering support for post-EIS design and construction activities was put on a temporary hold in February when the potential magnitude of delays to the EIS became apparent
- Owner Controlled Insurance Program (OCIP)—A protest was filed on this procurement in February and a review of the procurement activities found sufficient inconsistencies to warrant cancelling this procurement and initiating a new procurement.

The RTD met with several utilities and agencies whose facilities will be affected by the project to develop third party agreements and/or permits covering work on the project. Chief among these groups is the Hawaii Department of Transportation which controls several of the rights of way where the project will be constructed. Discussions involved the processes for approving designs and the processes for obtaining permission to construct, including the relocation or reconfiguration of existing facilities.

Work also continued on procurement of private properties required for construction of the project, but except for two cases of hardship impacts, this work only covered preparations for acquisition such as mapping and appraisals.



## **2. Current Issues & Status**

Airport & City Center Preliminary Engineering drawings – RTD provided comments and final version of drawings are complete.

Completed quantity take-offs for all packages sections – PE estimate scheduled for April.

### **Stations:**

- RFP drawings for the Farrington and West Oahu Station Groups are complete; waiting for selection of the qualified design consultant.
- Preliminary Engineering drawings for all the other station groups are complete
- Completed quantity take-offs for all the stations groups
- Re-started public informational presentations by station package, beginning with Pearl Highlands Station and Transit Center. First (of three) meeting was held on February 4<sup>th</sup>.

### **Value Engineering Study:**

- VE study will only be relative to stations
- Team leader will be Rob Stewart of Value Management Strategies
- Workshop will take place the week of April 19-23
- Completing the participants for the study

### **Miscellaneous Activities:**

- Construction, engineering & project controls procedures for all construction and engineering contracts being finalized
- Completed conformed Compendium of Design Activities
- Continued to update the Pearl Highlands flood plain analysis based on DPP comments
- Continuing dialog with FAA, FTA and HDOT on the alignment issues in the vicinity of the airport

### **West Oahu / Farrington Highway (WOFH) Guideway DB Contract:**

- RTD and GEC staff are attending the task force team meetings with the contractor and their design subs
- Reviewing submittals and RFIs.

### **Maintenance and Storage Facility DB Contract:**

- Providing technical response to RFIs and ATCs
- Part 2 proposals were received from the preferred offerors on February 17<sup>th</sup>.
- Proving technical review of the proposals

CORE Systems DBOM Contract:

- Providing technical responses to RFIs and ATCs

Kamehameha Highway DB Documents:

- RTD preparing comments on the Red Submittal review documents
- GEC preparing final RFP Part 2 (Technical and Price proposal) documents.
- Anticipated release of documents to preferred offerors is March 19<sup>th</sup>.

Station Group design contacts:

- Farrington Group RFQs have been received and under review by the evaluation committee
- West Oahu Group RFQs have been received. The evaluation will be started after the Farrington Group has been completed.

Design and Construction Coordination Meeting:

- Meetings are held bi-weekly between the GEC and RTD staffs to discuss status and issues
- Action Item list which includes the action item, responsible person and due date is reviewed at the beginning of each meeting

Agreements:

- Working on utility construction agreements for the WOFH section
- Working with HDOT on the City-HDOT agreement for the WOFH Section
- Assembling cost information for the utility engineering services agreements for the KHG section

Roadmap to Final Design:

- Using draft roadmap prepared by FTA, inputted City projected deliverable dates onto the roadmap
- Populated 20 items of the roadmap Project Solve site in February.

### **3. Procurement**

- RTD/Budget and Fiscal Services/Corporation Council meeting addressing Escrowed Proposal Documents
- Notices to Proceed 1a and 1b issued to Kiewit on WOFH Contract
- Released RFP Part 2, Kamehameha Highway Guideway Design-Build Contract material to Priority-Listed Offerors
- Technical review of Maintenance and Storage Facility Priced Technical Proposals
- Participated in Department of Transportation Services (DTS) Procurement Systems Review
- Processed addendums to the Core Systems DBOM solicitation

Please see Attachment "B" Contract Package Detail Schedule

#### **4. ROW**

##### Appraisals:

- Initial appraisals and reviews for all full and partial private takes for WOFH section are completed.
  - 7 appraisals over \$500,000 submitted for FTA concurrence.
  - 6 appraisals on January 22, 2010
  - 1 appraisal on March 5, 2010
  - 5 appraisals under \$500,000 completed.

Given the delay in the Record of Decision (ROD), it is likely a refresh of the appraisals will be required. Currently awaiting revised schedule for ROD to schedule this work.

##### Exclusionary Waivers:

- To date, 3 exclusionary waivers for hardship acquisition have been submitted. Two have been approved and one, which was submitted November 27, 2010 is pending.
- One hardship acquisition is in progress. Property owner has accepted the offer March 11, 2010 and closing is scheduled for April. Relocation is working with tenants that wish to remain at the location until project access is required.
- The appraisal review for the other property has been completed and does not require FTA concurrence.

##### Other Activities:

- Continuing to secure Consent-to-Enter agreements in support of pre-design efforts.
- Determining appraisal schedule for Kamehameha Guideway parcels.
- Real Estate Tracking Database that replaced Excel spreadsheet is operational and currently creating interface between project documents tracking system. Additional reports are in development.
- Continuing on-going communication with property owners impacted by the project.

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FULL ACQUISITION					
	All Segments	Segment 1	Segment 2	Segment 3	Segment 4
Impacts	40	14	5	6	15
Parcels Needed	40	14	5	6	15
Appraisals in Process	0	0	0	0	0
Appraisals Complete	15	14	0	0	1
Offers	1	0	0	0	1
Acceptance	1	0	0	0	1
Relocation Complete	0	0	0	0	0
Ready for Construction	0	0	0	0	0

PARTIAL ACQUISITION					
	All Segments	Segment 1	Segment 2	Segment 3	Segment 4
Impacts	160	17	21	34	88
Parcels Needed	143	16	7	32	88
Appraisals in Process	0	0	0	0	0
Appraisals Complete	2	2	0	0	0
Offers	0	0	0	0	0
Acceptance	0	0	0	0	0
Relocation Complete	0	0	0	0	0
Ready for Construction	0	0	0	0	0

EASEMENTS					
	All Segments	Segment 1	Segment 2	Segment 3	Segment 4
Impacts	12	6	0	1	5
Parcels Needed	12	6	0	1	5
Appraisals in Process	0	0	0	0	0
Appraisals Complete	0	0	0	0	0
Offers	0	0	0	0	0
Acceptance	0	0	0	0	0
Relocation Complete	0	0	0	0	0

TOTAL Parcel Impacts	TOTAL Parcels Needed	TOTAL Appraisals in Process	TOTAL Appraisals Complete	TOTAL Offers	TOTAL Acceptance	TOTAL Relocations Complete	TOTAL Ready for Construction
212	195	0	17	1	1	0	0

## **5. Systems & Operations**

Review of HECO's request to use the guideway structure to relocate their 138 KV overhead lines to insulated cable in conduit.

Continued with replies to questions raised by CSC on the RFQ.

Finalized CSC amendment # 23.

Emergency walkway discussions and NFPA 130 2007 vs. 2010 release.

CSC operations estimate assumption discussions.

Initial meeting to discuss MSF technical evaluations and scoring philosophy.

Continued meetings with CSC to clarify and answer questions associated with the original RFQ.

Continued to work on the Operations Plan.

## **6. Quality**

The Draft RTD Quality Management Program (Revision A) post preliminary engineering phase, was developed and currently being reviewed internally, prior to issuance to FTA/PMOC for approval.

On WOHP Project, the Final Drafts (Revision B) of KPC Project Quality Management Plan (QMP) and Design Quality Management Plan (DQMP) after intensive reviews were submitted to RTD/GEC for final approval. The RTD/GEC approval of the QMP and DQMP is anticipated on or before April 7, 2010.

The FTA QA/QC Guidelines was invoked in Section SP 4.7, Quality Management of the Kamehameha Project RFP. Likewise, the FTA QA/QC Guidelines will be invoked on the Core System and MSF Projects RFP as an Addendum prior to Deadline, and Final and Best Offer submittals, respectively.

## 7. Public Information

### Main Messages:

- Elevated System
- Economic Stimulus
- Mobility

### Outreach Tools:

- Rapid Response
- Grass Roots Outreach

February Speakers Bureau Presentations & Events: 20

February Neighborhood Boards: 22

### Highlights:

- S.M.A.R.T - The Mayor's Youth Summit
- Jobs, The Economy, and Our Island's Future – Public Forum





## **8. Safety and Security**

Currently revising the SSMP. SSMP Rev. 2.0 is a significant revision based on programmatic changes and FTA approval to enter PE. (Due date 02-Apr-10)

Completed reviews for the Kiewit Site-Specific Health and Safety Plan and Emergency Response Plan and submitted comments.

Completed review of the Geotechnical Investigation Health and Safety Plan and submitted comments.

Completed the Project Safety and Security Certification Plan Rev. 0. Document released 19-Feb-10.

Received a copy of the FTA Letter to the Hawaii Governor and working with HDOT (Ryan Fujii) to determine next steps.

Met with Chief and Assistant Chief of the Honolulu Police Department to lay out plan for assignment of a lieutenant to the Project team. The lieutenant will serve as the primary liaison between HPD and the Project team. The lieutenant will support the development of operational security procedures and coordination with any maintenance of traffic activities during construction.

Completed review of safety and security design criteria and submitted comments to GEC.

## **9. Environment & Historical Status**

Publication of Final Environmental Impact Statement (Final EIS) is pending resolution of several key issues including:

- Signatures on the Section 106 Programmatic Agreement (PA) are pending additional “minor” changes requested by SHPD. FTA headquarters staff is working with SHPD to incorporate these changes into the PA.
- Impacts to Ke’ehi Lagoon Park will be documented in the Final EIS as a de minimis impact. This conclusion has been coordinated with Chris VanWyk at FTA.
- Awaiting comments from FAA concerning impacts at the Honolulu International Airport Runway Protection Zone (RPZ). Once FAA comments are received, modifications to the Final EIS will be completed.
- Various chapters of the Final EIS are undergoing QC reviews in preparation for the legal sufficiency review by FTA.

Coordinating with WOFH Environmental Taskforce concerning:

- Review of Kiewit’s Environmental Compliance Plan.
- Development of an Environmental Database to track environmental commitments

## **10. Staffing**

The Project has hired four new City employees.

- Structural Engineer, In-Tae Lee, April 1
- Civil Engineer – Maintenance & Storage Facility, Akira Fujita, April 16
- Administrative Specialist, Mai Tram Do, April 1
- Secretary - Project Controls and Admin Branch, Rosie Colobong, April 16

## 11. Schedule Status

### Major Impacts:

As of 2-26-10 the project continues to be adversely affected by the successful completion of the ROD Milestone. Its impact has caused all major milestones to slip.

<b>Major Project Milestones</b>	<b>Early Date</b>	<b>Total float</b>
Entry into Final Design	12/23/2010	-103
FFGA	1/24/2012	-103
Open Waipahu to Leeward	6/26/2013	-184
MSF Complete	10/31/2014	-202
Open East Kapolei to Leeward	3/2/2015	-214
Open Leeward to Pearl Highlands	11/27/2015	-135
Open Kamehameha Section	10/1/2016	122
Open Airport Section	3/10/2018	-130
Open City Center Section	7/11/2019	-129

The late ROD also directly impacts our current West Oahu/Farrington DB contracts NTP's and those contracts currently in the procurement process. Contract awards can not take place without the ROD in place. ROW procurement is also adversely impacted.

Resolving the LONP issue is also critical for the start of the design/build contracts. Once ROD is resolved and removed from the critical path, LONP's will be driving the project.

The above impacts will necessitate a complete re-scheduling of the project. It is anticipated to take place within the next month.

For greater detail please refer to attachment "A" Master Schedule and attachment "B" ROW Schedule.

## Roadmap to ROD

Milestone	Estimated Duration	Expected Date
PA signed, RPZ issue resolved	1 day	April 12
RTD finalizes FEIS	1 week	April 16
FTA reviews FEIS; legal review	2 weeks	May 3
RTD finalizes FEIS	1 week	May 7
RTD prints & distributes	2 days (weekend)	May 10
Sent to FTA & Governor	1 day	May 11
NOA (Notice of Availability)	1 day (Friday only)	May14
Federal register & Governor review	4 weeks	June 11 (holiday)
Reconciliation	2 weeks	June 25
ROD Issued	1 day (Friday only)	June 25 or July 2

## Contract Packages

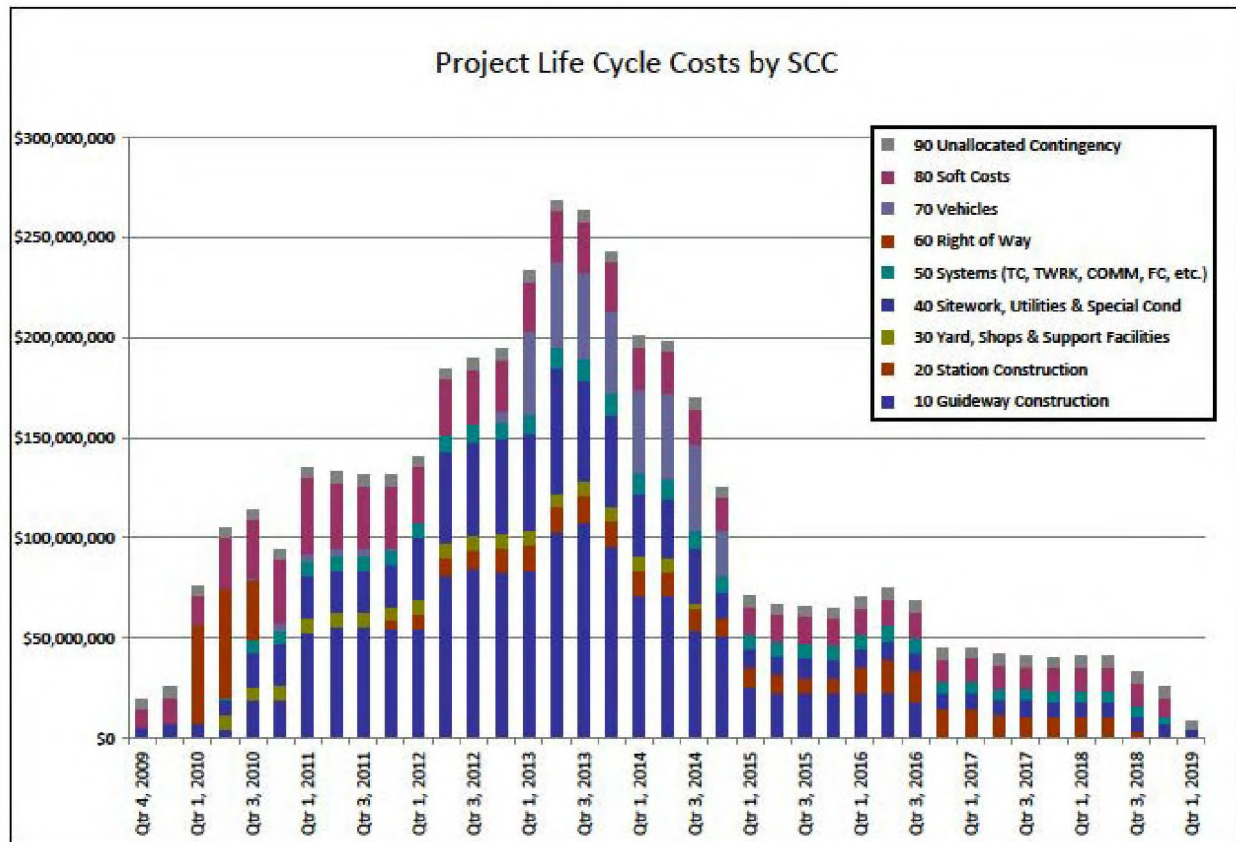
DB-120	W. Oahu/Farrington Guideway DB (Awarded)
DB-200	Maintenance & Storage Facility DB
DB-320	Kamehameha Guideway DB
DBB-170	W. Oahu Station Construct (3)
DBB-270	Farrington Station Construct (3)
DBB-275	Pearl Highland Sta., Garage
DBB-370	Kamehameha Stations (2) Contract
DBB-450	Airport Utility Relocation
DBB-460	Airport Guideway Construct
DBB-470	Airport Stations (3) Construct
DBB-550	City Center Utility Relocation
DBB-560	City Center Guideway and Ala Moana Station Construct
DBB-570	Dillingham Stations (3) Construct
DBB-572	City Center Stations (3)
DBB-575	Kaka'ako Stations (2) Construct
DBOM-920	Core Systems DBOM
FD-140	W. Oahu Stations (3) Design
FD-240	Farrington Stations (3) Design
FD-245	Pearl Highland Sta. Parking Structure & Ramps Design
FD-340	Kamehameha Stations (2) Design
FD-430	Airport Utility & Guideway Design
FD-440	Airport Stations (3) Design
FD-530	City Center Utility, Guideway and Ala Moana Station Design
FD-540	Dillingham Stations (3) Design
FD-542	City Center Stations (3) Designs
FD-545	Kaka'ako Stations (2) Design
MI-930	Project Wide Elevators & Escalators
MM-180	West Oahu/Farrington Station CE&I
MM-380	Pearl Highlands & Kam Stations CE&I
MM-480	Airport Utility & Guideway CE&I
MM-485	Airport & Dillingham Stations CE&I
MM-580	City Center Utility & Guideway CE&I
MM-585	City Center & Kaka'ako Stations CE&I
MM-900	Program Management Support Consultant (Awarded)
MM-905	General Engineering Consultant 1 (Awarded)
MM-910	General Engineering Consultant (2)
MM-920	HDOT Coordination Consultant
OF-950	Owner Furnished Plants & Shrubs

Note: The above is the proposed CPP and is currently awaiting approval by RTD.

The following Activities have been added to the project master schedule this month.

Activity Id	Activity Name	Section
P392	Issue NTP 1A WOFH DB Guideway	DB120
M200	Deliver Rail to DB120 Contract	DB200
M220	Deliver Special Trackwork to DB120 Contract	DB200
M240	Deliver Third Rail to DB120 Contract	DB200
M500	OSB & MOW Bldg Construction for Core Systems	DB200
M510	Deliver System Trackwork to DB320 Contract	DB200
M600	MSF Substantial Completion	DB200
M700	MSF DB Contract Completion	DB200
M799	Delivery of Balance of System Trackwork	DB200
K110	Kamehameha Hwy Guideway Design	DB320
K112	Offerors Prepare DB Part 2 Kam Hwy Response	DB320
K122	Issue Final Addendum Part 2	DB320
K129	KHG Final Track Plans	DB320
K130	Kamehameha Hwy Guideway Design	DB320
K132	Informational Meeting Part 2	DB320
K142	Last Day for Questions Part 2	DB320
K200	Kam Hwy GW Utility Relocation Construction	DB320
K299	DB120 Contract Ready for KHG Interface	DB320
K300	KHG Construction	DB320
K398	KHG Ready for Aloha & Pearlridge Stations	DB320
K399	DB200 Contract Rail Delivery to KHG	DB320
K400	KHG Construction	DB320
K499	KHG Ready for Core Systems	DB320
K500	KHG Construction	DB320
K599	KHG Contract Substantial Completion	DB320
K900	KHG Contract Closeout	DB320
E166	FAA Issues Resolved	EIS
E168	Address FAA Comments & Finalize FEIS	EIS
E178	FTA Reviews FEIS & Conducts Legal Review	EIS
E287	Reconciliation of Comments on FEIS	EIS
E295	Federal Register Review Period	EIS
D200	Complete PE Program Schedule	P.E.
D210	Safety & Security Certification Plan	P.E.
D235	Prepare & Submit Financial Plan	P.E.
E645	Noise Variance Permit	Permits

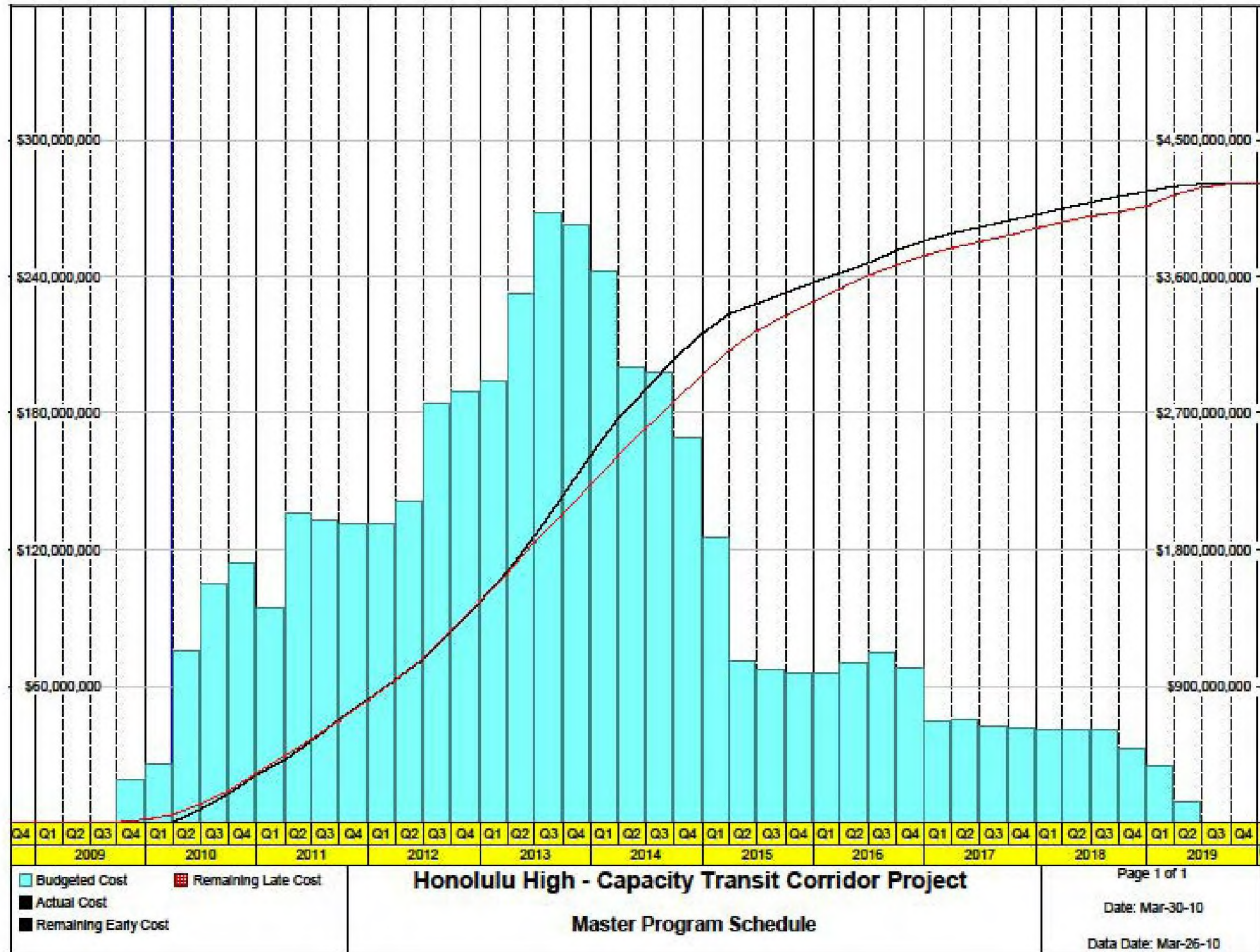
## 12. Cost Status



The costs displayed on this page are in 2009 4<sup>th</sup> quarter un-escalated dollars.

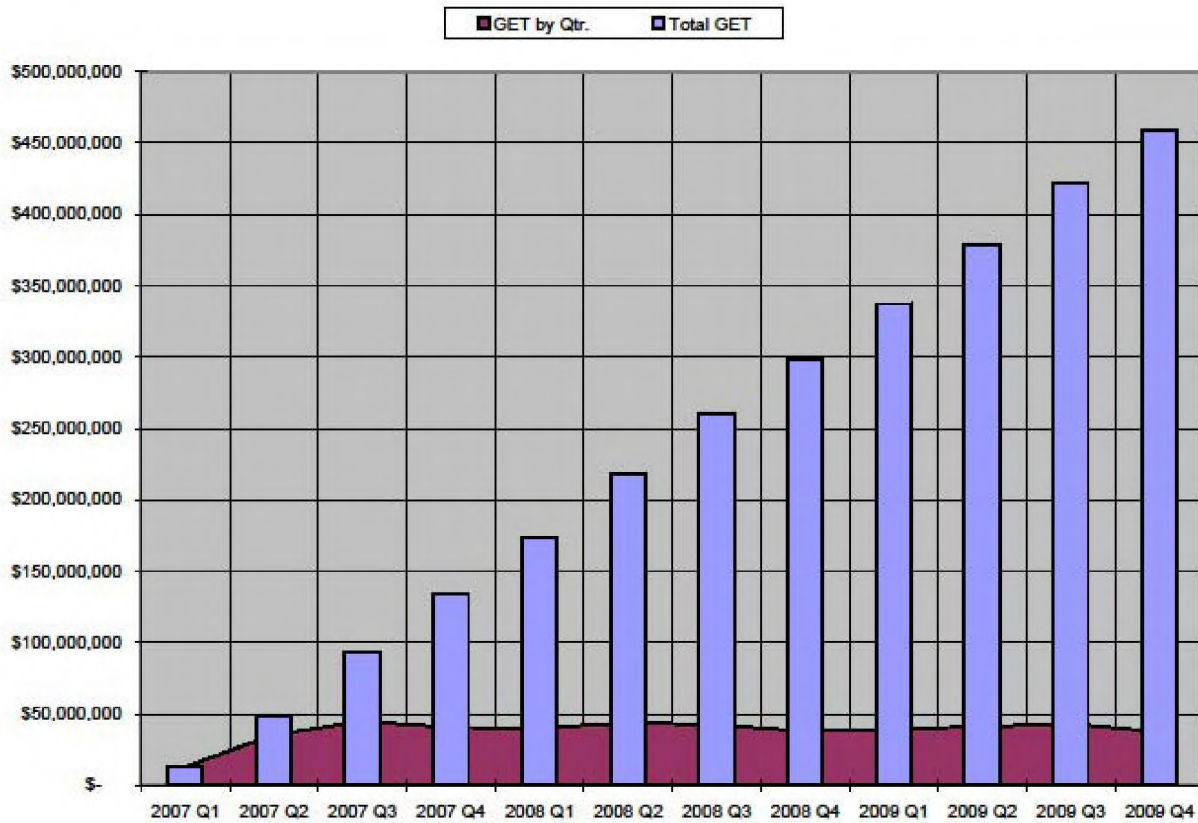
10 Guideway Construction	\$	1,362,413,385
20 Station Construction	\$	306,261,455
30 Yard, Shops & Support Facilities	\$	121,784,150
40 Sitework, Utilities & Special Cond	\$	768,070,301
50 Systems (TC, TWRK, COMM, FC, etc.)	\$	252,656,011
60 Right of Way	\$	134,226,121
70 Vehicles	\$	341,673,557
80 Soft Costs	\$	733,821,832
90 Unallocated Contingency	\$	197,209,434
	\$	-
<b>Total</b>	<b>\$</b>	<b>4,218,116,246</b>

Planned Project Expenditures with Early and Late Curves





GET collection by Quarter 2007 to Q4 2009



Page 1

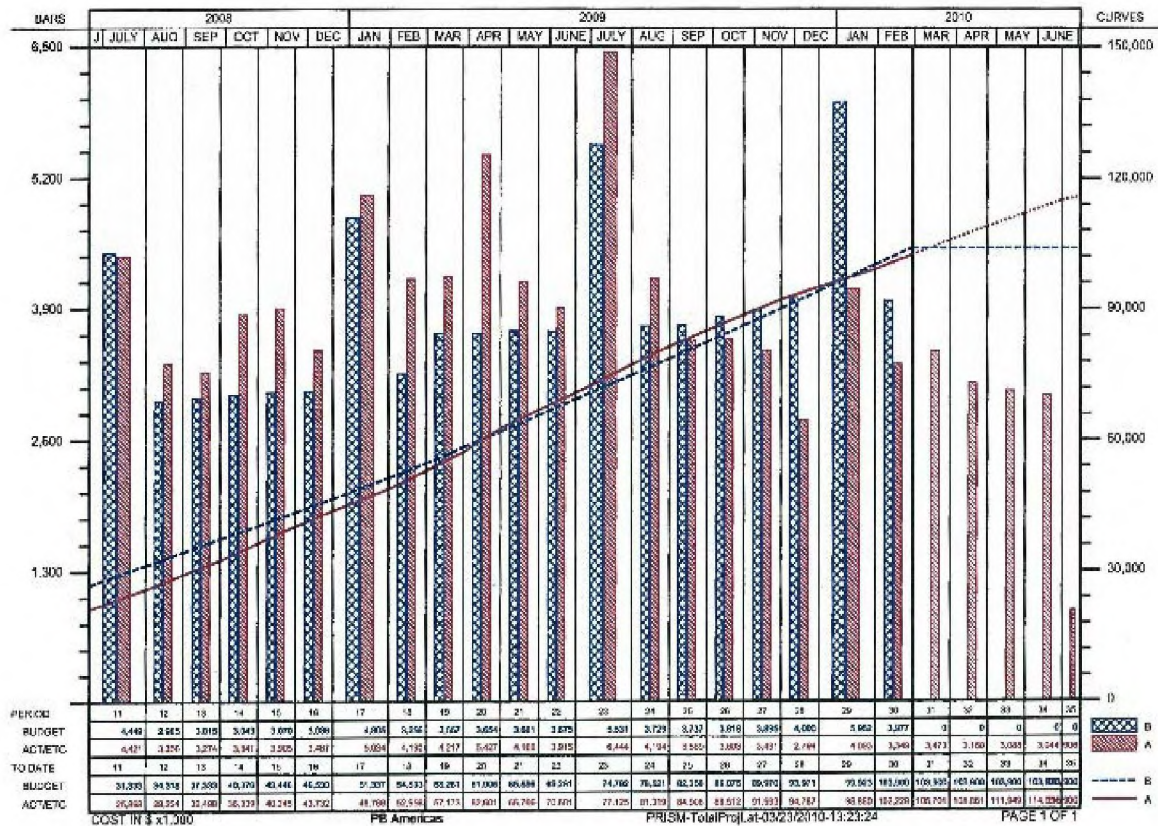
	2007	2008	2009	YTD 2-26-10	Total
GET Transit Revenue	\$ 48,424,383	\$ 169,113,552	\$ 160,855,726	\$ 80,649,657	\$ 459,043,318
Investment Revenue	\$ 18,098	\$ 3,724,229	\$ 3,595,915	\$ 142,876	\$ 7,481,118
Other			\$ 29,748	\$ 974	\$ 30,722
Total Revenue	\$ 48,444,488	\$ 172,839,789	\$ 164,483,398	\$ 80,793,507	\$ 466,555,158

## Current Contracts and their Values

PMSC1	\$	11,786,062
PMSC2	\$	36,700,000
GEC1	\$	103,900,000
Utility - The Gas Company	\$	45,000
Utility - Chevron Products	\$	45,000
Utility - AT&T	\$	60,000
Utility - Pacific LightNet	\$	40,000
Utility - Oceanic Time Warner	\$	40,000
Utility - Hawaiian Telecom	\$	50,000
Utility - TW Telecom	\$	50,000
PUC Attorney	\$	50,000
Kiewit Pacific	\$	482,924,000
Geolabs	\$	1,218,500
<b>Total</b>	<b>\$</b>	<b>636,908,562</b>

## GEC1 Expenditures

### Expenditures



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## Kiewit West Oahu/Farrington Guideway and PB Americas GEC1 cost status by SCC

Kiewit Pacific Corporation					
SCC	Co:Minor Category Description	January	February	To Date	EAC
10.04	Guideway: Aerial structure				\$242,277,581
10.05	Guideway: Built-up fill				\$283,778
10.09	Track: Direct fixation				\$18,174,811
10.11	Track: Ballasted				\$3,102,558
40.01	Demolition, Clearing, Earthwork				\$3,796,415
40.02	Site Utilities, Utility Relocation				\$34,297,580
40.05	Site structures including retaining walls, sound walls				\$8,270,778
40.06	Pedestrian/bike access and accommodation, landscaping				\$1,783,000
40.07	Automobile, bus, van access ways including roads, parking lots				\$14,427,386
40.08	Temporary Facilities and other indirect costs during construction	\$8,982,855	\$1,861,129	\$10,854,084	\$58,785,338
80.01	Preliminary Engineering	\$333,333	\$174,667	\$508,000	\$19,383,121
80.02	Final Design				\$32,500,634
80.03	Project Management for Design and Construction	\$3,225,991	\$1,849,303	\$4,875,294	\$41,414,896
80.04	Construction Administration & Management				\$8,685,360
80.06	Legal; Permits; Review Fees by other agencies, cities, etc.	\$104,783	\$52,391	\$157,174	\$1,771,000
		\$12,657,062	\$3,737,490	\$16,394,552	\$482,924,000
90.01	Allowance for Changes and Claims 15%	\$0	\$0	\$0	\$72,438,600
		\$12,657,062	\$3,737,490	\$16,394,552	\$555,362,600
PB Americas GEC 1					
80.01	Preliminary Engineering	\$5,160,684	\$1,508,231	\$6,668,925	\$12,678,818
80.03	Project Management for Design and Construction	\$5,207,245	\$1,840,368	\$7,047,613	\$14,709,533
		\$10,367,939	\$3,348,599	\$13,716,538	\$27,388,349
	Prior to Entrance into PE			\$88,511,851	\$88,511,851
			\$3,348,599	\$102,228,189	\$115,900,000

### **13. Risk Management**

RTD has had several planning discussions with PB's Will Willson regarding preparing for Risk Management Assessments for the Project. A decision has been made to involve Willson in local risk analyses and to have him as an advisor when FTA initiates their risk assessment program.

Our intent is to "get a jump" on the process by identifying risks, mitigation strategies and appropriate contingencies prior to the next round of FTA studies. Plans have been made for a project familiarization meeting with the GEC Risk Assessment team in early April.



**14. Action items**

Item No.	Item	Responsible Party	Date Identified	Date Due	Date Completed	Status
1	Schedule real estate workshop	PMOC	4-Nov-09	TBD		Open
2	Provide FTA with “making the case” approach letter for LONP	City	4-Nov-09	10-Apr		City will provide after they complete the bottoms up estimate and financial plan
3	FTA prepare memo to Corporation Council on confidentiality	FTA	16-Dec-09	10-Jan		Under review by the FTA
4	Schedule Roadmap meeting for Entry into FD	FTA/PMOC	16-Dec-09	10-Jan		Pending direction from FTA
5	Provide signed MOA with DHHL for Navy Drum Site	City	10-Jan	10-Feb	12-Mar-10	Complete
6	Provide Section 106 Programmatic Agreement comments	FTA	10-Jan	10-Feb		In FTA legal review
7	Provide sample Force Account and Claims Avoidance Plans	PMOC	10-Jan	10-Feb		CD to be provided with samples at April meeting
8	Populate Final Design Roadmap	City	10-Jan	10-Feb		Ongoing
9	Discuss contingency requirements for DB contracts entering FD	PMOC	10-Mar	10-Apr		Awaiting response from FTA TPM
10	Check on status of Real Estate appraisals provided to FTA	PMOC	10-Mar	10-Apr		Received and under review
11	Provide outline of Monthly Report	City	10-Mar	10-Apr	17-Mar-10	Complete

## 15. List of Acronyms & Definitions

AA	Alternative Analysis
AAR	American Association of Railroads
AASHTO	American Association of State Highway and Transportation Officials
ADA	Americans with Disabilities Act of 1990, as amended
ANSI	American National Standards Institute
AREMA	American Railway Engineering and Maintenance of Way Association
ATC	Automatic Train Control
BASC	Before & After Study Consultant
BCS	Baseline Control Survey
BFS	Budget and Fiscal Services
BWS	Board of Water Supply
CAC	Citizen Advisory Committee
CCR	Cost Control Report
CCTV	Closed Circuit Television
CDT	Contract Document Transmittals
CEI	Construction Engineering and Inspection
CFR	Code of Federal Regulations
CFM	Configuration Management
CIP	Capital Improvement Program
CM	Construction Management
CO	Contracting Officer
COR	Department of the Corporation Counsel
COTR	Contracting Officer's Technical Representative
CPM	Critical Path Method
CSC	Core Systems Contractor
CSI	Construction Specifications Institute
CTS	Cable Transmission System
CVS	Certified Value Specialist
DBE	Disadvantaged Business Enterprise
DBELO	Disadvantaged Business Enterprise Liaison Officer
DDC	Department of Design and Construction
DEIS	Draft Environmental Impact Statement
DEM	Department of Emergency Management
DFM	Department of Facilities Maintenance

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DHS	Department of Homeland Security
DPP	Department of Planning and Permitting
DPR	Department of Parks and Recreation
DTS	Department of Transportation Services
E&O	Errors and Omissions
ECHO	Electronic Clearing House Operation
EDC	Engineering Design Consultant
EEO	Equal Employment Opportunity
EIS	Environmental Impact Statement
EMS	Emergency Medical Services
ENV	Department of Environmental Services
EOR	Engineer of Record
EP&D	Engineering, Planning and Development
EPA	Environmental Protection Agency
EV	Earned Value
EVM	Earned Value Methodologies
FCA	Hawaii State Foundation on Culture and the Arts
FEIS	Final Environmental Impact Statement
FFGA	Full Funding Grant Agreement
FHWA	Federal Highway Administration
FRA	Federal Railroad Administration
FTA	Federal Transit Administration
GEC	General Engineering Consultant
GET	General Excise Tax
HAR	Hawaii Administrative Rules
HBC	Hawaii Building Code
HHCTCP	Honolulu High Capacity Transit Corridor Project
HDOT	Hawaii Department of Transportation
HFD	Honolulu Fire Department
HMTV	Honolulu Municipal Television
HPD	Honolulu Police Department
HRS	Hawaii Revised Statutes
IDR	Inspector Daily Report
ITT	Integrated Test Team
JPA	Joint Participation Agreement
LPA	Locally Preferred Alternative

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LRV	Light Rail Vehicles
MIS	Major Investment Study
MOCA	Mayor's Office of Culture and the Arts
MOS	Minimum Operable Segment
MPO	Metropolitan Planning Organization
NEPA	National Environmental Policy Act
NFPA	National Fire Protection Association
NOA	Notification of Availability
NTP	Notice to Proceed
O&M	Operations and Maintenance
OahuMPO	Oahu Metropolitan Planning Organization
OCIP	Owner Controlled Insurance Programs
ORTP	Oahu Regional Transportation Plan (ORTP)
OWC	Overall Work Program
OTS	Oahu Transit Services, Inc.
PE/EIS	Preliminary Engineering/Environmental Impact Statement
PEP	Project Execution Procedures
PMC	Program Management Consultant
PMOC	Project Management Oversight Consultant
PMP	Project Management Plan
PO	Purchase Order
PTD	Public Transit Division
PS&E	Plans Specification & Estimate
PSA	Professional Services Agreement
PV	Planned Value
QA	Quality Assurance
QA/QC	Quality Assurance and Quality Control
QC	Quality Control
RAMP	Real Estate Acquisition and Relocation Management Plan
RCH	Revised Charter of the City and County of Honolulu 1973
RFI	Request for Information
RFP	Request for Proposal
ROD	Record of Decision
ROW	Right-of-Way
RTD	Rapid Transit Division
SCADA	Supervisory Control and Data Acquisition



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SSCP	Safety and Security Certification Plan
SSEPP	System Security and Emergency Preparedness Plan
SSMP	Safety and Security Management Plan
SSOO	State Safety Oversight Office
SSORC	Safety and Security Oversight and Review Committee
TAC	Technical Advisory Committee
TED	Traffic Engineering Division
TIP	Transportation Improvement Program
TOD	Transit Oriented Development
TPD	Transportation Planning Division
TSA	Transportation Security Administration
TSTD	Traffic Signals and Technology Division
USC	United States Code
USDOT	United States Department of Transportation
VE	Value Engineering
WBS	Work Breakdown Structure





















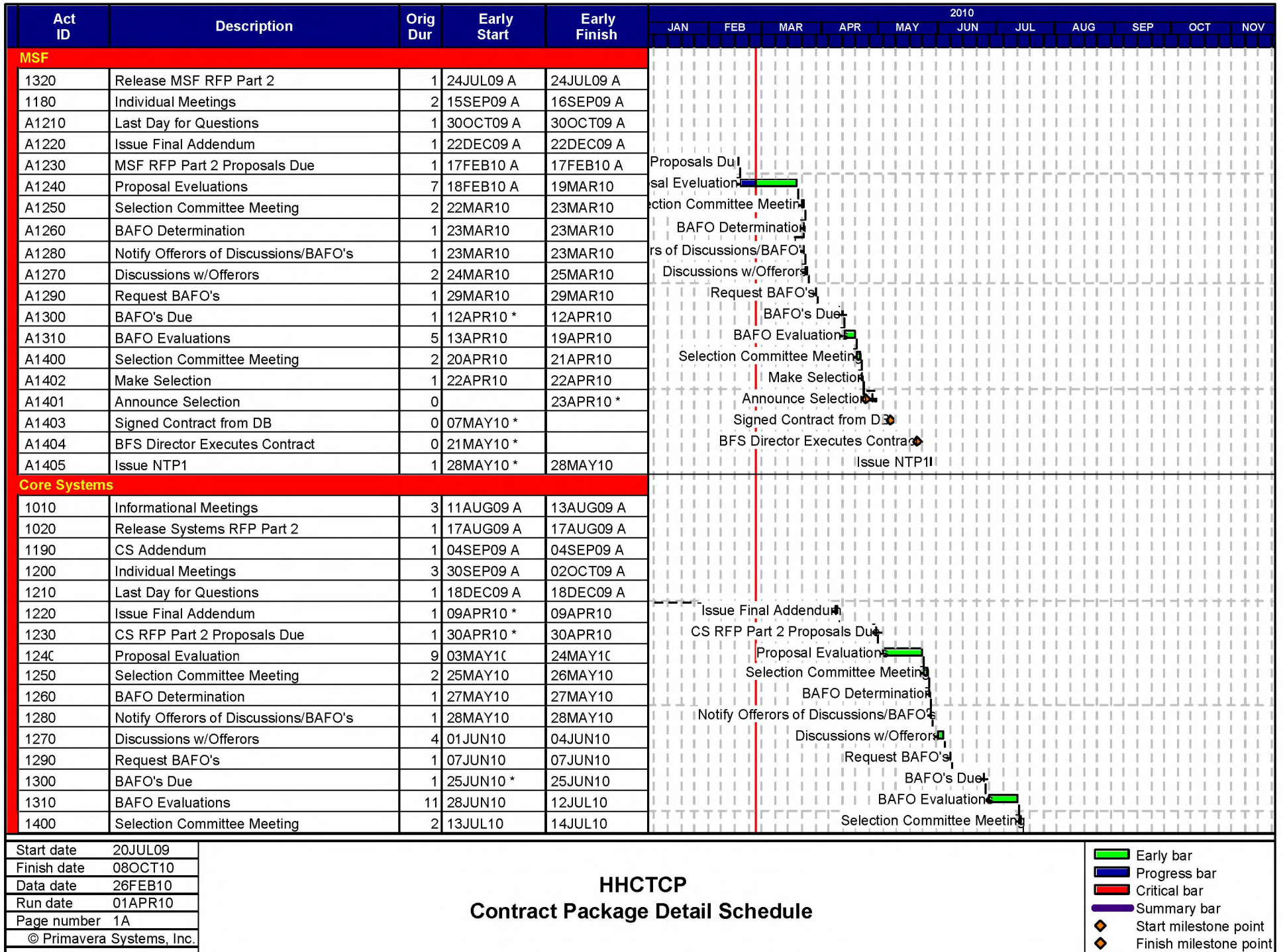














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Start date	20JUL09
Finish date	08OCT10
Data date	26FEB10
Run date	01APR10
Page number	2A
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## HHCTCP

### Contract Package Detail Schedule

-  Early bar
-  Progress bar
-  Critical bar
-  Summary bar
-  Start milestone point
-  Finish milestone point